

FIG. 1

FIG. 1



FIG. 2A

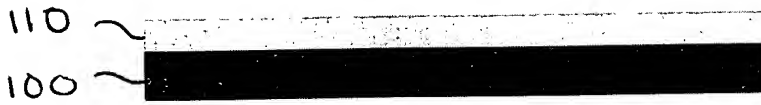


FIG. 2B



FIG. 2C

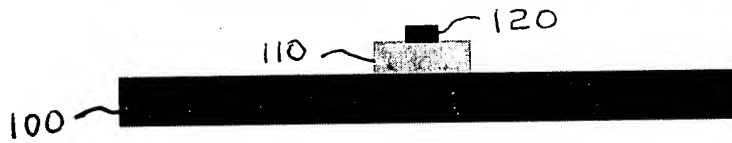


FIG. 2D

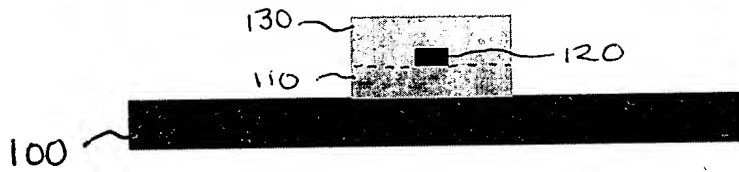


FIG. 2E

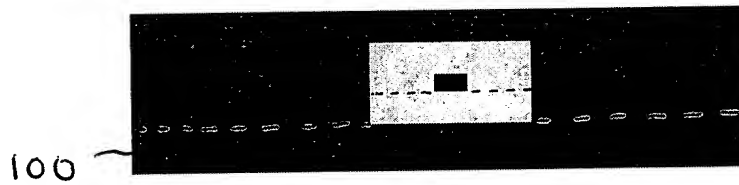


FIG. 2F

FIG. 2A

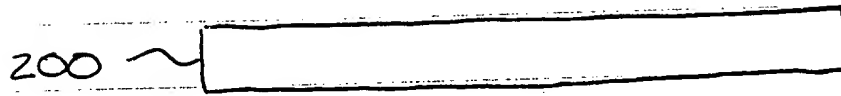


FIG. 3A

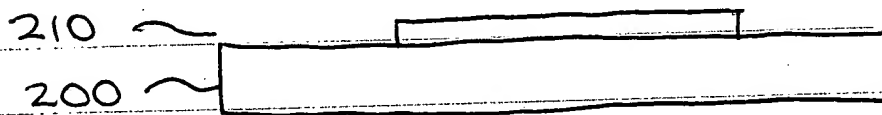


FIG. 3B

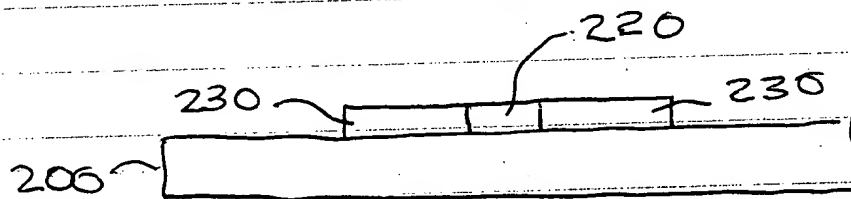


FIG. 3C

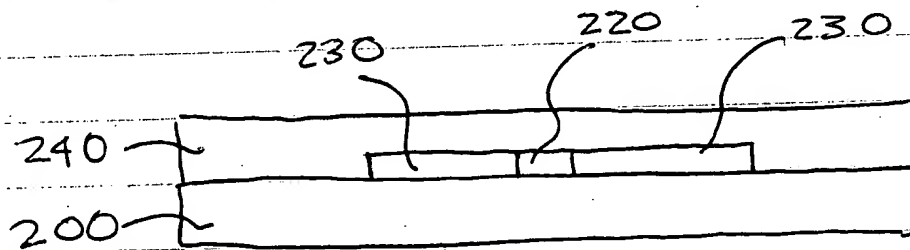
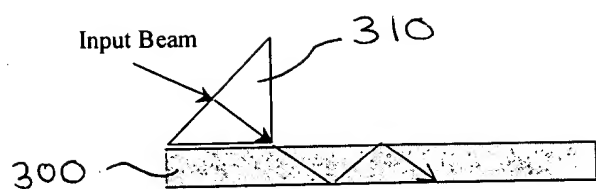


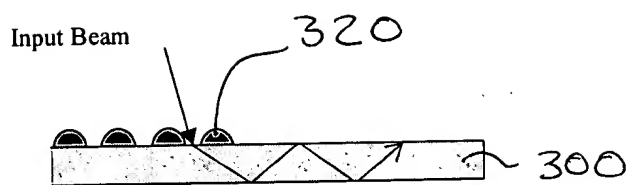
FIG. 3D

FIG. 3A



Prism coupling

FIG. 4A



Grating coupling

FIG. 4B

FIG. 4A

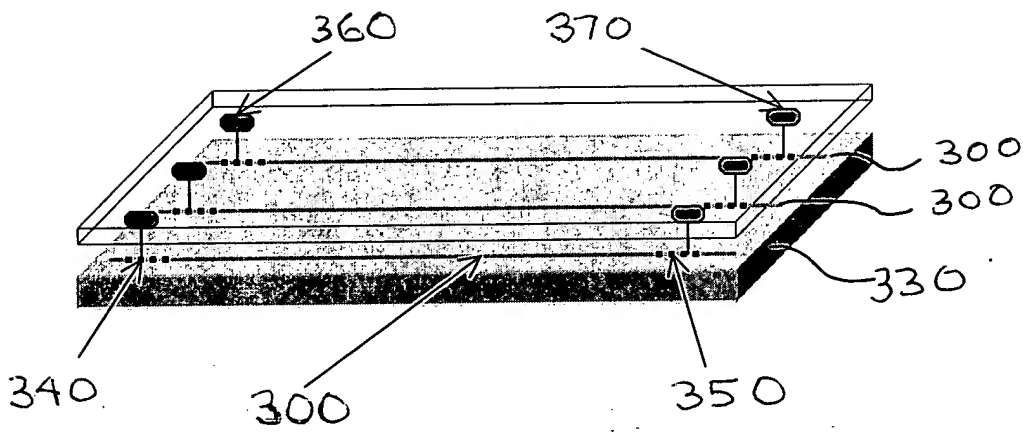


FIG. 5

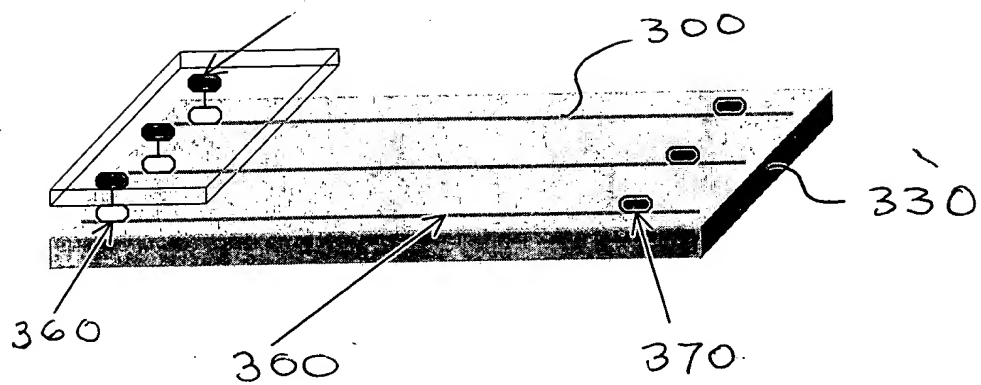


FIG. 6

FIG. 6

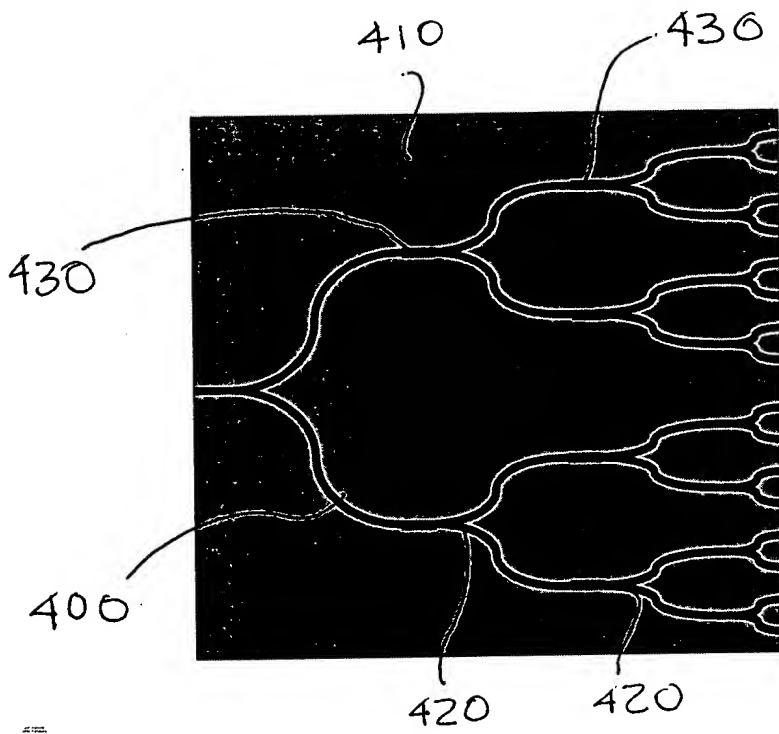


FIG. 7A.

FIG. 7A

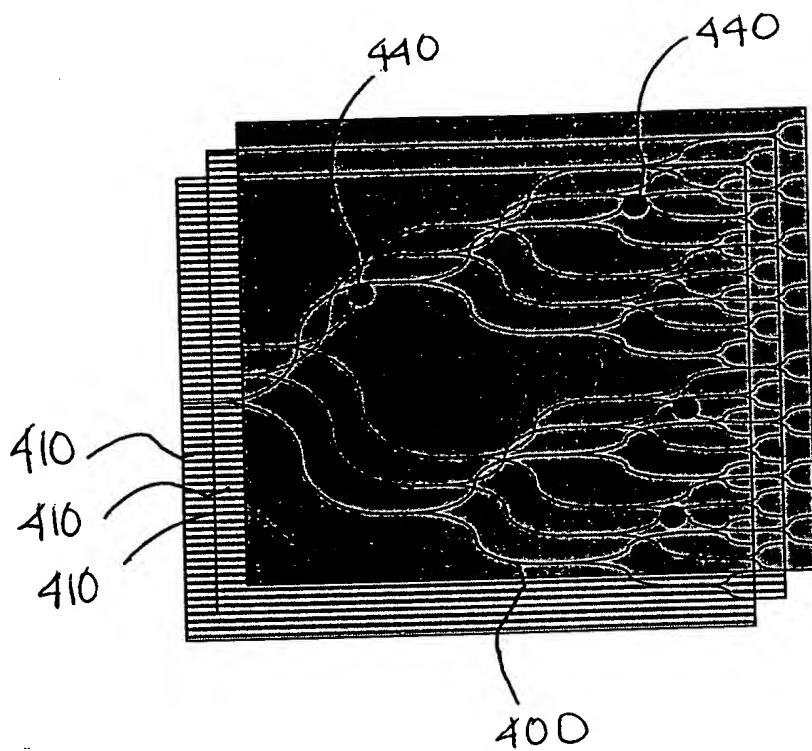


FIG. 7B.



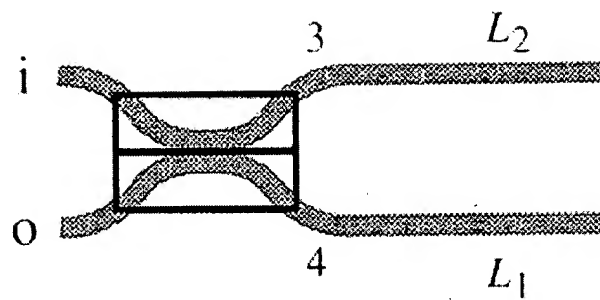


FIG. 8.

FIG. 8

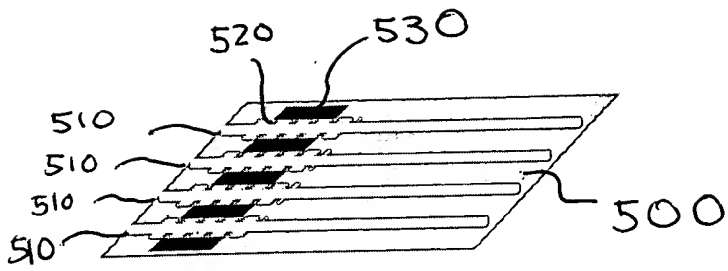


FIG. 9

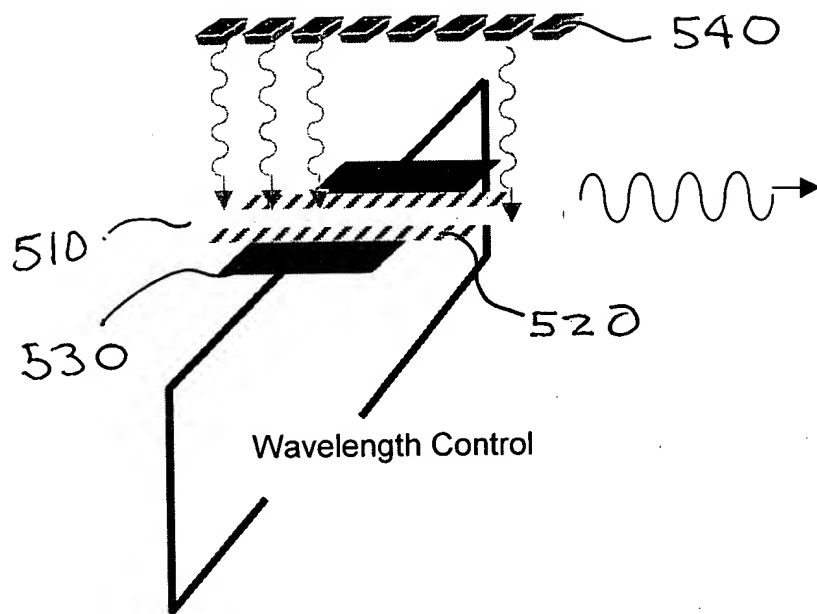


FIG. 10

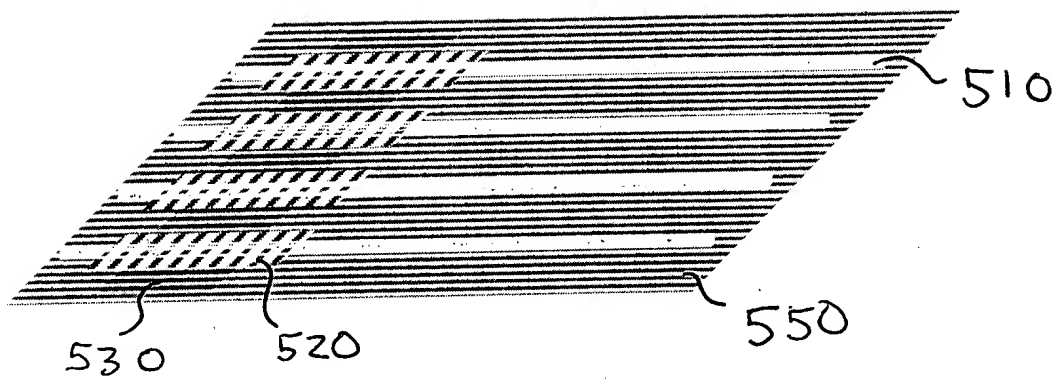


FIG. 11.

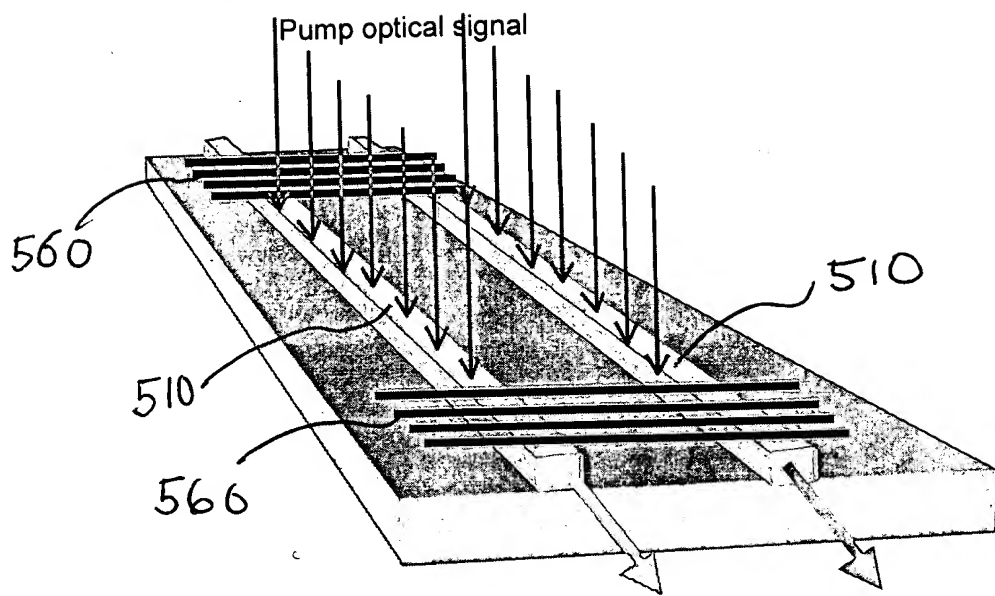


FIG. 12

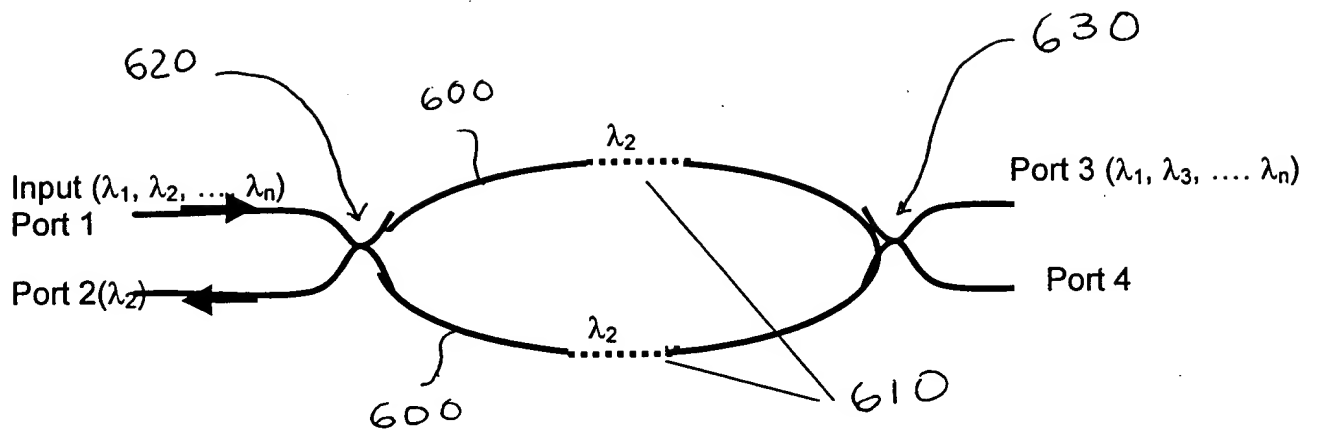


FIG. 13.

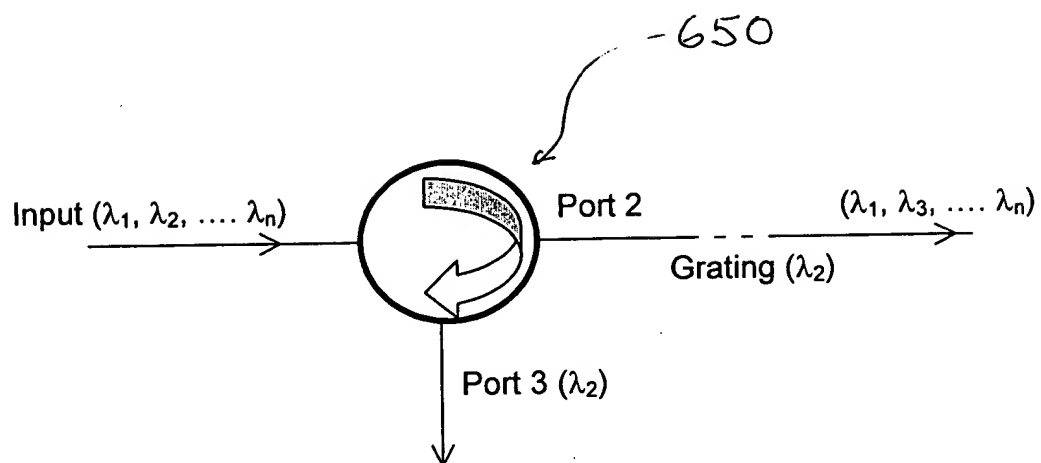
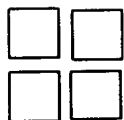
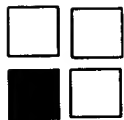


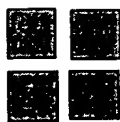
FIG. 14



(a)



(b)



(c)



(d)

FIG. 15



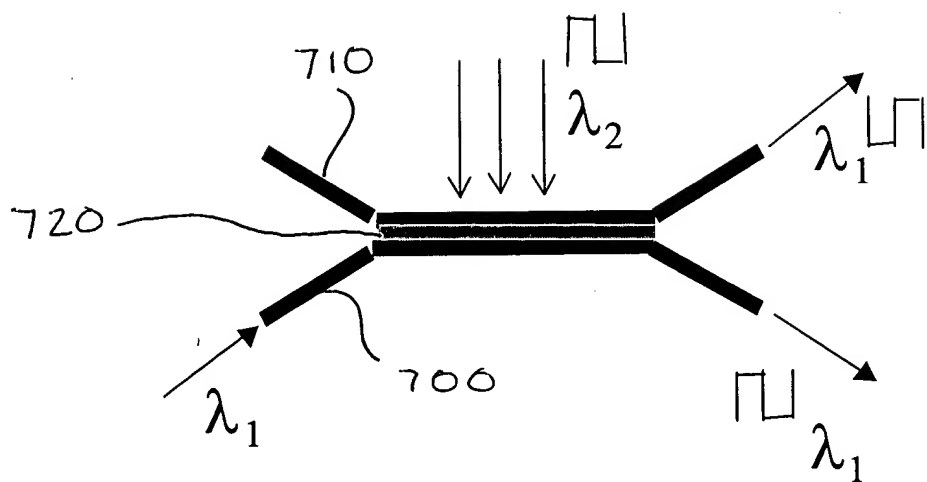


FIG. 16

FIG. 16 is a schematic diagram of a waveguide junction.

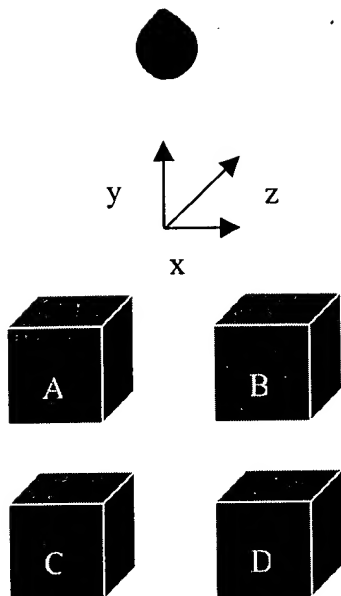


FIG. 17

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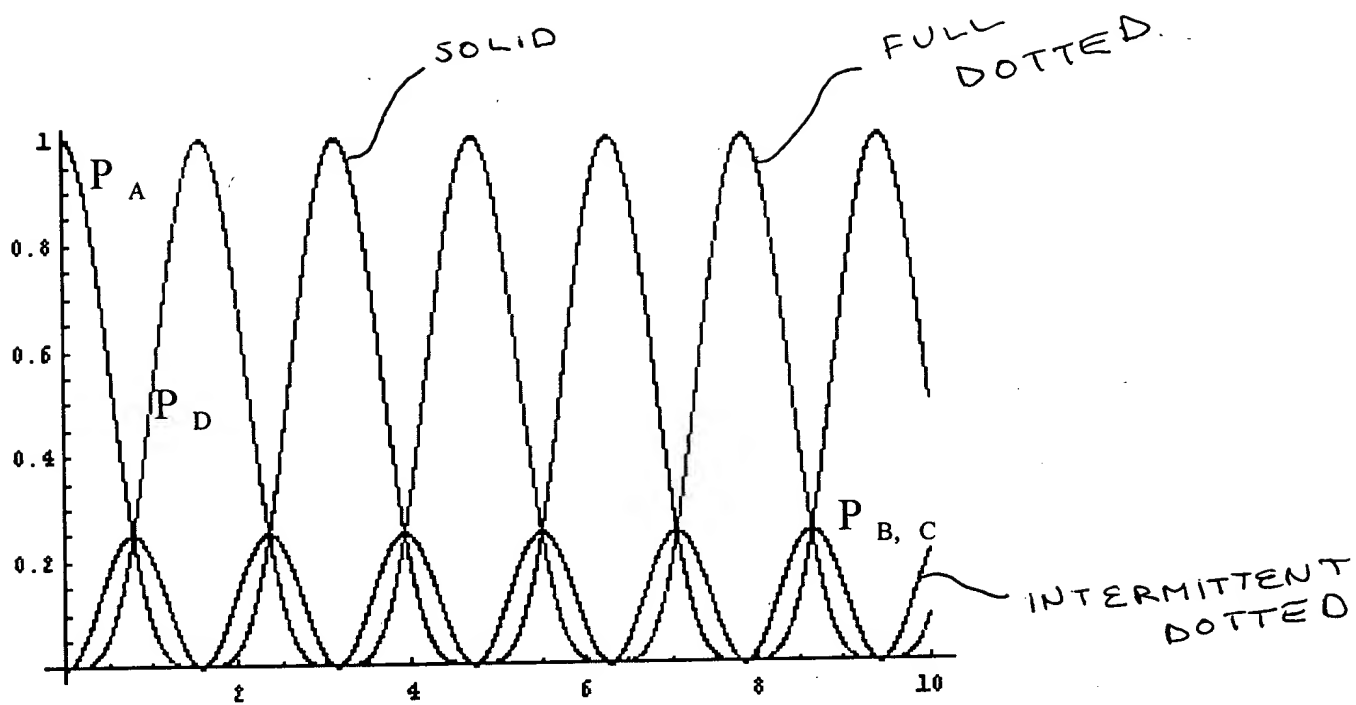


FIG. 18

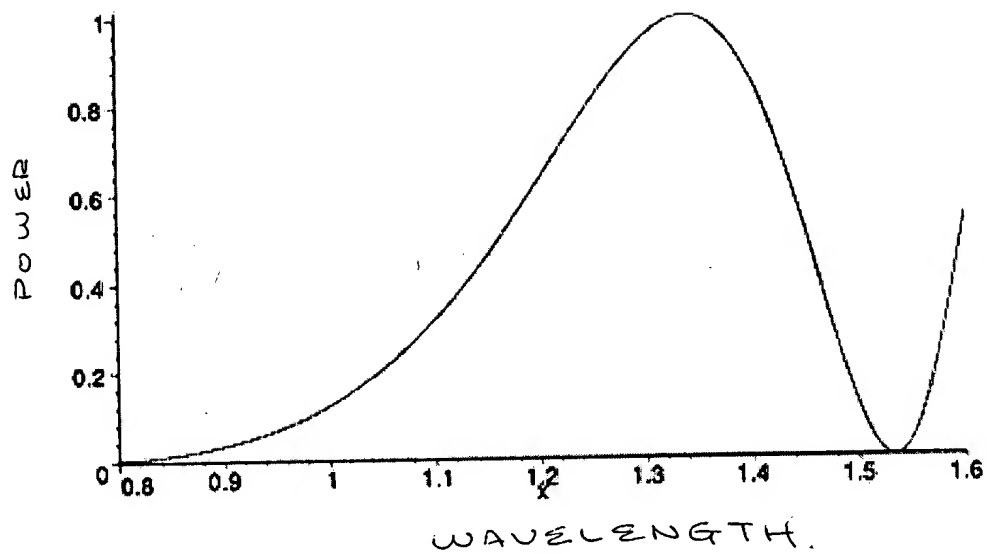


FIG. 19

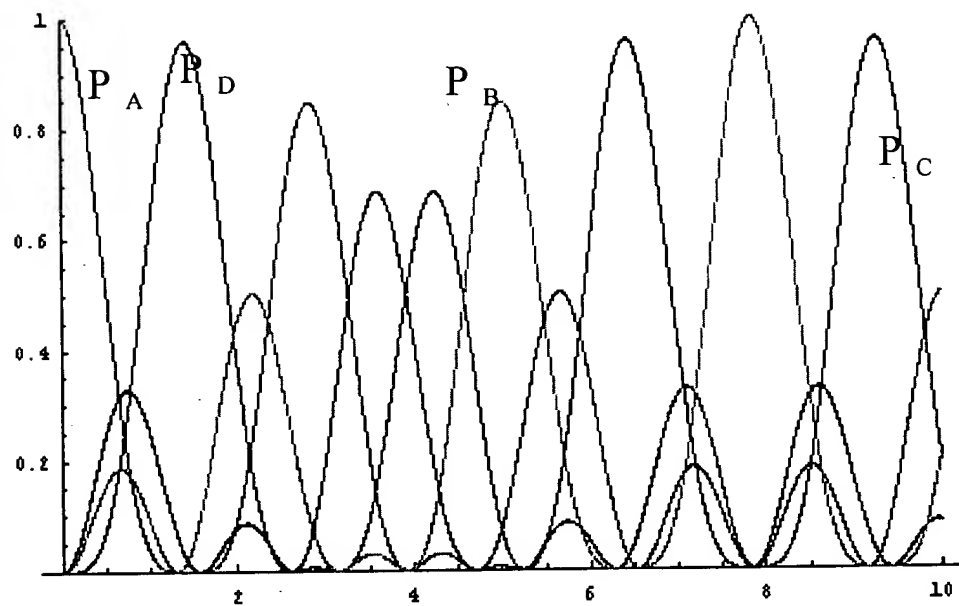


FIG. 20

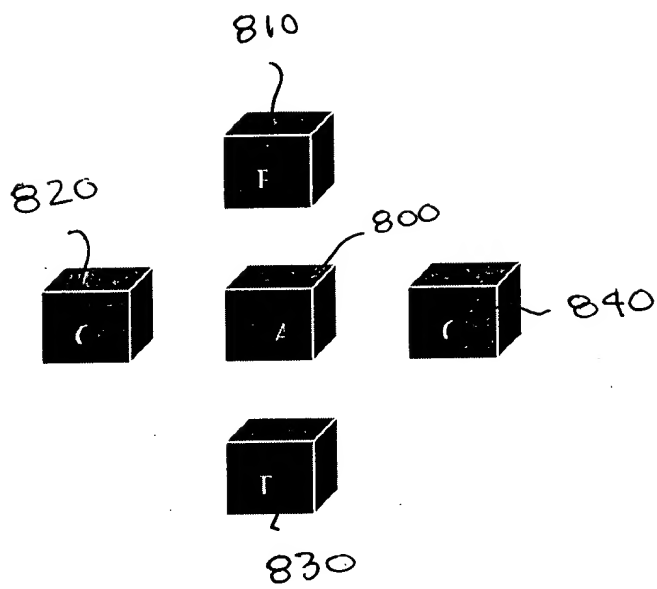


FIG. 21

FIG. 21

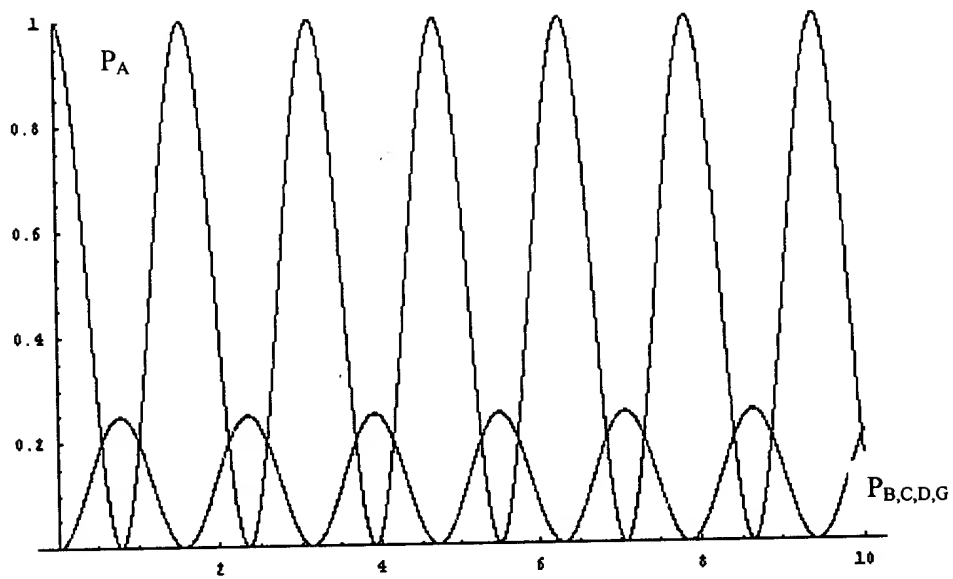


FIG. 22

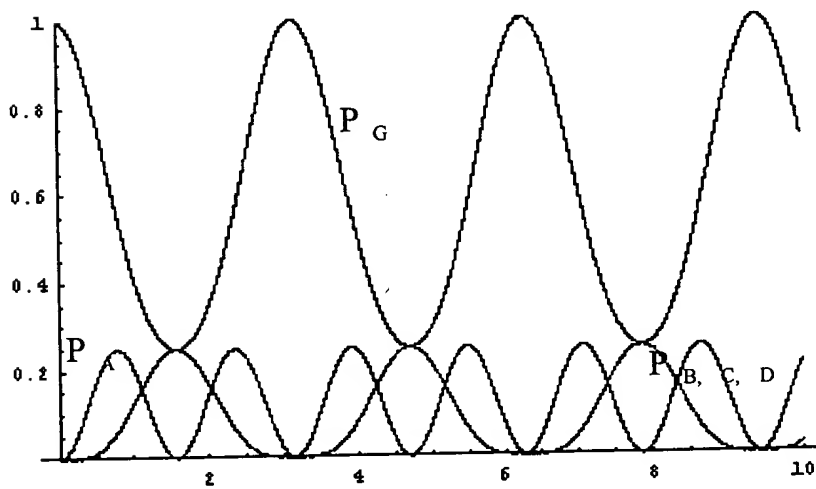


FIG. 23